

MATERIAL SAFETY DATA SHEET

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SECTION I—PRODUCT IDENTIFICATION

PRODUCT FORMULA: 3-1X-58 *Base*
 PRODUCT NAME: URAFILM TFE ANTI-CHAFE GRAY # 36081
 PRODUCT CHEMICAL FAMILY: POLYTETRAFLUORO ETHYLENE

SECTION II—HAZARDOUS INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS IN AIR		IARC, NTP OSHA HAZARD EVALUATION
		OSHA PEL	ACGIH TLV	
POLYTETRAFLUORO ETHYLENE	9002-84-0	15mg/m ³	10mg/m ³	NON-CARCINOGENIC
EPOXY	25068-38-6	5ppm	2ppm	EPICHLORHYDRIN-CARCINOGEN IARC VOL. 11, PAGE 131
AZELAIC ACID	123-99-9	NOT EST.	NOT EST.	NON-CARCINOGENIC
TITANIUM DIOXIDE	1314-13-2	15mg/m ³	5mg/m ³	NON-CARCINOGENIC
BARYTES	7727-47-7	15mg/m ³	10mg/m ³	NON-CARCINOGENIC
ALUMINA	1344-28-7	5mg/m ³	10mg/m ³	NON-CARCINOGENIC
ETHYL 3-ETHOXY PROPIONATE	763-69-0	NOT EST.	NOT EST.	NON-CARCINOGENIC IRRITANT, MILDLY TOXIC
METHYL NORMAL AMYL KETONE	110-43-0	100ppm	100ppm	NON-CARCINOGENIC NARCOTIC
METHYL ETHYL KETONE	78-93-3	200ppm	200ppm	NON-CARCINOGENIC NARCOTIC
CARBON BLACK	1333-86-4	3.5mg/m ³	3.5mg/m ³	NON-CARCINOGENIC
YELLOW OXIDE	12259-21-1	10gm/m ³	5gm/m ³	NON-CARCINOGENIC

SECTION III—PHYSICAL DATA

BOILING POINT: 175°F	SPECIFIC GRAVITY: 1.21
VAPOR DENSITY (AIR = 1): HEAVIER	% VOLATILE BY VOLUME: 56%
SOLUBILITY IN WATER: NEGLIGIBLE	EVAPORATION RATE: SLOWER
VAPOR PRESSURE: @20°C 70 mm.Hg.	(BUTYL ACETATE = 1)

SECTION IV—FIRE AND EXPLOSIVE HAZARD DATA

FLASH POINT: 20 °F. TCC LEL: 1.05 % by Volume UEL: 10.0 % By Volume

EXTINGUISHING MEDIA: Foam, Dry Chemical, CO₂ and/or Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS:

During a fire, irritating and toxic gases and smoke are present from decomposition. Isolate from heat, sparks and open flames. Closed containers may burst when exposed to extreme heat. Vapors form an explosive mixture in air between the upper and lower explosive limits.

Special firefighting procedures: Full emergency equipment with self-contained breathing apparatus should be worn by firefighters.

SECTION V—HEALTH HAZARD DATA

EFFECTS OF ACUTE OVEREXPOSURE:

Eyes: Can cause severe irritation, redness, tearing and blurred vision.
Skin: Prolonged or repeated contact can cause irritation. Defatting to skin.
Inhalation: Dizziness, breathing difficulty, headaches and loss of coordination.
Ingestion: Damage to throat and esophagus, vomiting and diarrhea.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Asthma, respiratory tract irritation, dermatitis. Kidney and liver problems, conjunctivitis.

PRIMARY ROUTES OF ENTRY: Dermal, inhalation, ingestion.

EMERGENCY AND FIRST AID PROCEDURES:

Eye Contact: Flush with large amounts of water for 15 minutes.
Skin Contact: Wash thoroughly with soap and water. See a doctor.
Inhalation Over Exposure: Move person to fresh air. If breathing stops, apply artificial respiration and seek immediate medical attention.
Ingestion: Do not induce vomiting. Can cause chemical pneumonitis and pulmonary edema. Contact physician immediately.

OTHER HEALTH HAZARDS: EFFECTS OF CHRONIC OVEREXPOSURE:

EYES: Blurred vision. Conjunctivitis. **SKIN:** Sensitization, dermatitis. **INHALATION:** Asthma-like symptoms.
Central nervous system effects. **INGESTION:** Damage to throat. Possible kidney and liver impairment.

SECTION VI—REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide; carbon dioxide, oxides of nitrogen, various hydrocarbon and acrid fumes.

CONDITIONS TO AVOID:

Excessive heat, poor ventilation. Corrosive atmosphere, excessive aging, sparks and open flames.

INCOMPATIBILITY (MATERIAL TO AVOID):

Alkaline materials, strong acids and oxidizing materials.

SECTION VII—SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Eliminate ignition sources; provide good ventilation; dike spill area and add absorbent material to spilled liquid. Thoroughly wet with water and mix.

WASTE DISPOSAL METHOD:

Collect absorbent/water/spilled liquid mixture into metal containers and add enough water to cover. Consult local, state and federal hazardous waste regulations before disposing into approved hazardous wastes landfills. Obey relevant laws.

SECTION VIII—SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION:

When spraying and/or printing this material, use a NIOSH-approved cartridge respirator or gas mask suitable for airborne mists and vapor concentrations below the time-weighted threshold limit values. When using in poorly ventilated and confined spaces, use a fresh-air supplying respirator or a self-contained breathing apparatus.

VENTILATION:

General mechanical ventilation or local exhaust should be suitable to keep vapor concentration below TLV. Ventilation equipment must be explosion-proof.

PROTECTIVE GLOVES: Impermeable chemical handling gloves for skin protection.

EYE PROTECTION: Use chemical safety glasses, goggles and face shields for eye protection.

OTHER PROTECTIVE EQUIPMENT:

Use impermeable aprons and protective clothings when ever possible to prevent skin contact. The use of head caps when ever possible is strongly recommended.

HYGIENIC PRACTICE: Eye washes and safety showers in the work palce is recommended.

SECTION IX—SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Use non-sparking utensils when handling this material. Avoid hot metal surfaces. Use in cool, well-ventilated areas. Keep containers closed when not in use. Keep away from excessive heat and open flames.

OTHER PRECAUTIONS:

Smoking in areas where this material is used should be strictly prohibited. Tools used with this material should be aluminum, brass or copper. Plastic tools should not be used. Since emptied containers retain product residues, (vapors, liquid and/or solid) all hazard precautions should be observed.

SECTION X—TRANSPORTATION DATA

PROPER SHIPPING NAME: PAINT UN1263

DOT CLASSIFICATION: FLAMMABLE DOT LABEL: RED

PRECAUTIONS TO BE TAKEN IN TRANSPORTATION: Refer to Section IX

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